

CLAIMS

1. A continuous casting method for continuously manufacturing a cast member by driving a plurality of rotational molding members disposed so as to form a casting space in a state in which the plurality of rotational molding members are differentiated in temperature.

2. The continuous casting method as recited in claim 1, wherein a portion of one of the rotational molding members which starts to come into contact with molten metal is set to a temperature of $[(\text{melting point or liquidus temperature of the metal}) \times 0.35]$ or more, and wherein the other of the rotational molding members are cooled.

3. The continuous casting method as recited in claim 2, wherein the portion of one of the plurality of rotational molding members which starts to come into contact with the molten metal is set to a temperature of $[(\text{melting point or liquidus temperature of the metal}) \times 0.5]$ or more.

4. The continuous casting method as recited in claim 2 or 3, wherein the temperature of the portion of one of the plurality of rotational molding members is set by heating the portion before the portion starts to come into contact with the molten metal.

5. The continuous casting method as recited in any one of claims 1 to 4, wherein the plurality of rotational molding members are a pair of rolls disposed at a

certain distance.

6. The continuous casting method as recited in any one of claims 1 to 4,
wherein the plurality of rotational molding members are a casting wheel with a
5 groove formed on an external peripheral surface thereof and an endless belt put on
the casting wheel so as to close the groove.

7. The continuous casting method as recited in any one of claims 1 to 6,
wherein the metal is aluminum or its alloy.

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8. The continuous casting method as recited in any one of claims 1 to 6,
wherein the metal is copper or its alloy.

9. A cast member continuously cast by the method as recited in any one of
15 claims 1 to 8, wherein a final solidification portion is located within a depth from a
surface of the cast member, the depth being $[(\text{thickness of the cast member}) \times 0.2]$
or less.

10. The cast member as recited in claim 9, wherein a surface layer portion
20 is removed from the cast member.

11. A metal worked article obtained by performing plastic working to the
cast member as recited in claim 9 or 10.

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12. A continuous casting apparatus, comprising:

a plurality of rotational molding members disposed so as to form a casting space, the rotational molding members being driven in a direction of casting;

a heating device which is configured to heat some of the rotational molding members; and

5 a cooling device which is configured to cool the other of the rotational molding members.

13. The continuous casting apparatus as recited in claim 12, wherein the heating device is disposed ahead of a position where the some of the rotational
10 molding members start to come into contact with molten metal.